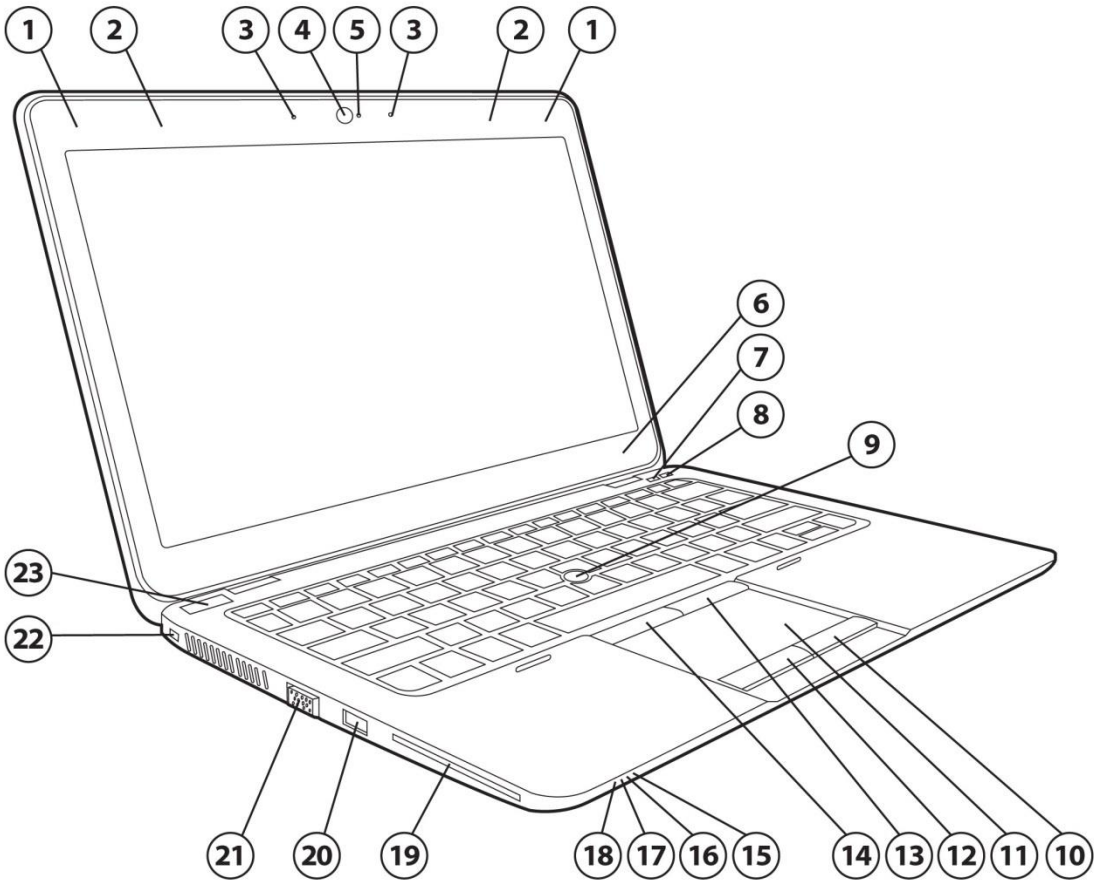
QuickSpecs

Overview

HP EliteBook 725 G2 Notebook PC

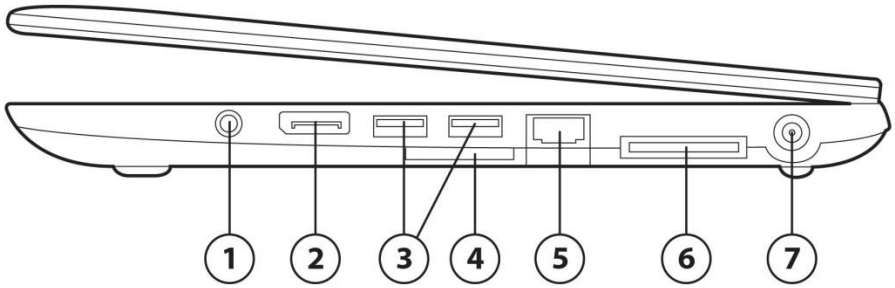


Front/Left

1. WLAN antennas (2)
2. WWAN antennas (2)
3. Internal microphones (2)
4. Webcam (select models only)
5. Webcam light (select models only)
6. Internal display switch
7. Wireless button
8. Volume mute button
9. Pointstick
10. Right TouchPad button
11. TouchPad zone
12. Left TouchPad button
13. Right pointing stick button
14. Left pointing stick button
15. Hard drive light
16. AC adapter/Battery light
17. Power light
18. Wireless light
19. Smart card reader
20. USB 3.0 charging port
21. External VGA monitor port
22. Security cable slot
23. Power button

QuickSpecs

Overview

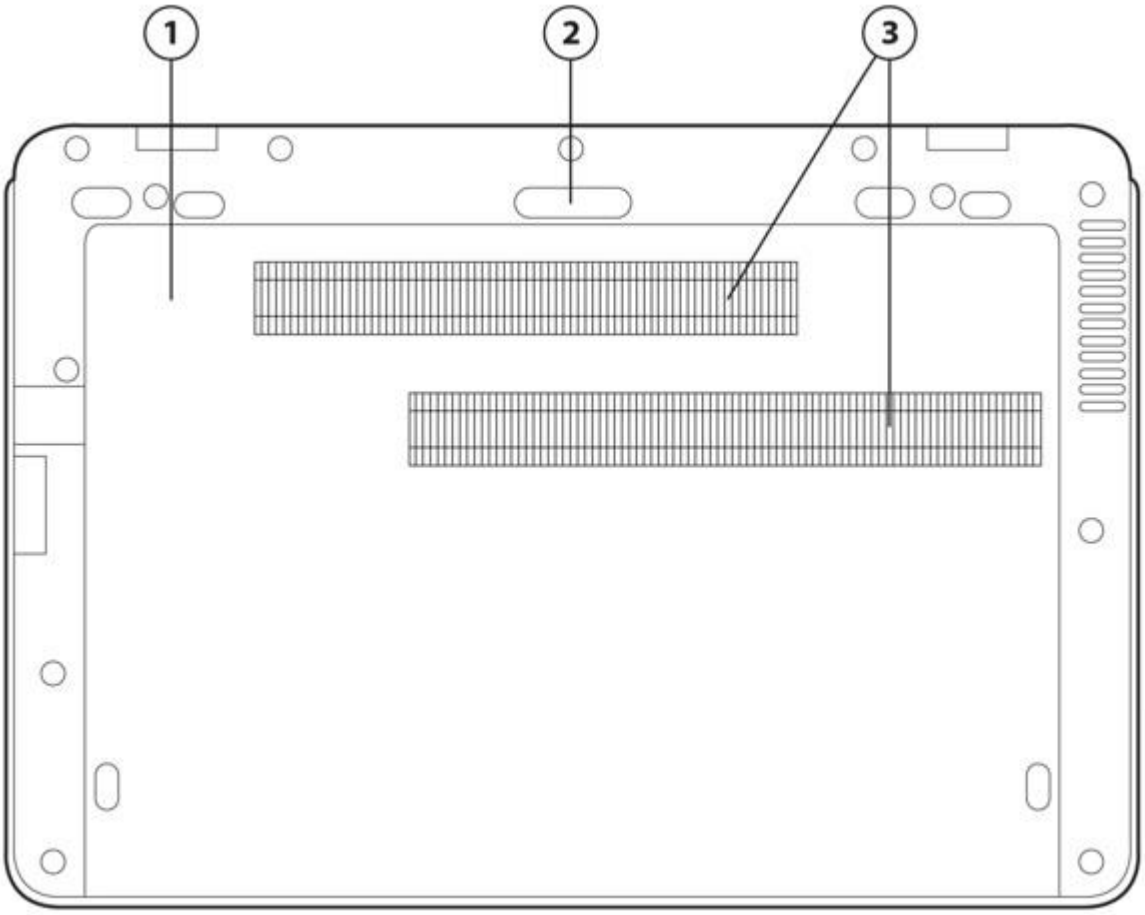


Right

1. Audio-out (headphone) jack/Audio-in(microphone) jack
2. DisplayPort
3. USB 3.0 ports (2)
4. Memory card reader
5. Drop-jaw Ethernet port (RJ-45)
6. Docking port
7. Power connector

QuickSpecs

Overview



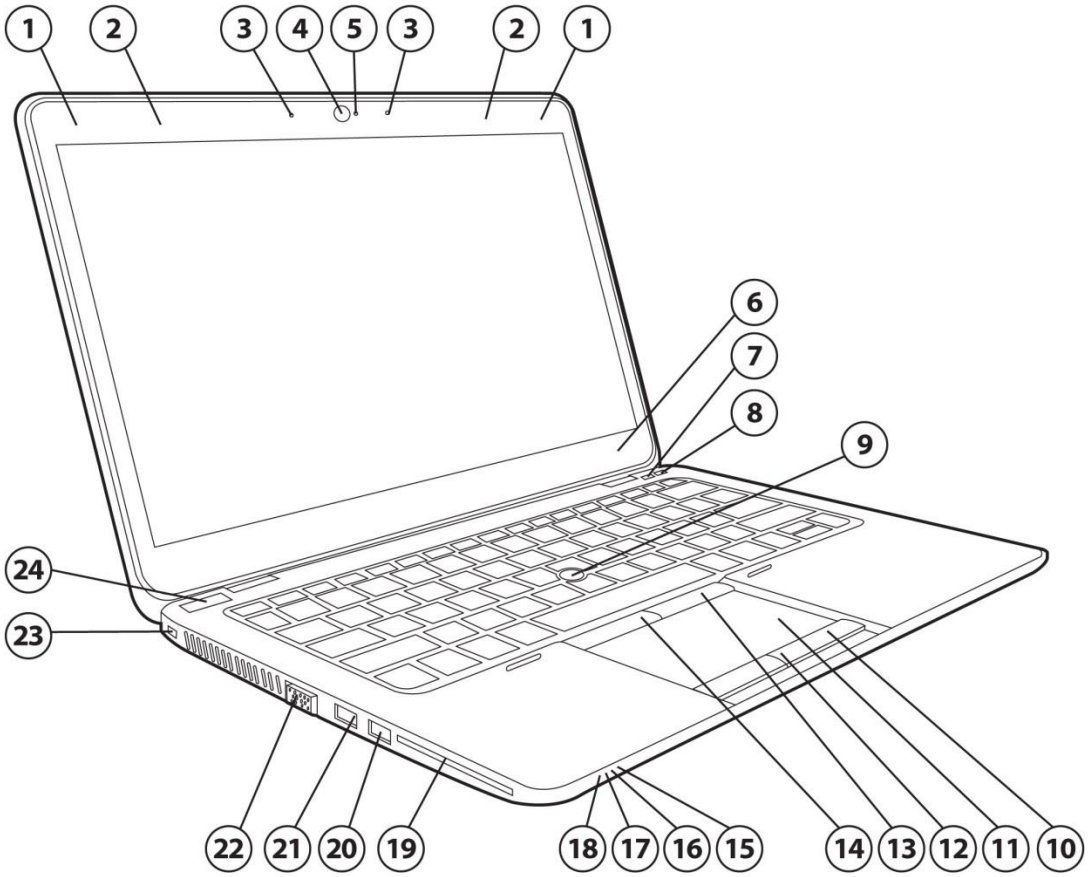
Bottom

1. EasyAccess panel
2. EasyAccess panel release lock
3. Vents (2)

QuickSpecs

Overview

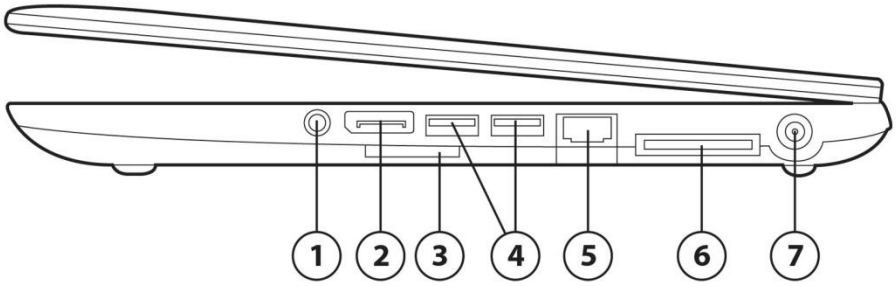
HP EliteBook 745 G2 Notebook PC



Front/Left

1. WLAN antennas (2)
2. WWAN antennas (2)
3. Internal microphones (2)
4. Webcam (select models only)
5. Webcam light (select models only)
6. Internal display switch
7. Wireless button
8. Volume mute button
9. Pointstick
10. Right TouchPad button
11. TouchPad zone
12. Left TouchPad button
13. Right pointing stick button
14. Left pointing stick button
15. Hard drive light
16. AC adapter/Battery light
17. Power light
18. Wireless light
19. Smart card reader
20. USB 3.0 port
21. USB 3.0 charging port
22. External VGA monitor port
23. Security cable slot
24. Power button

Overview

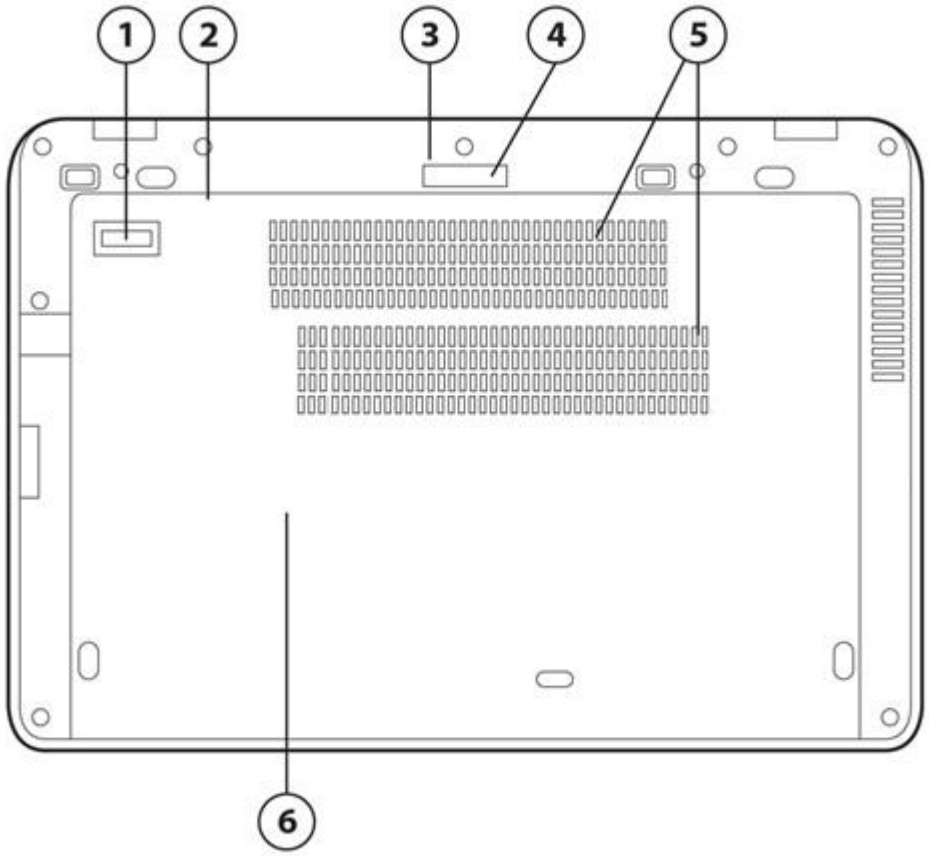


Right

1. Audio-out (headphone) jack/Audio-in(microphone) jack
2. DisplayPort
3. Memory card reader
4. USB 3.0 ports (2)
5. Drop-jaw Ethernet port (RJ-45)
6. Docking port
7. Power connector

QuickSpecs

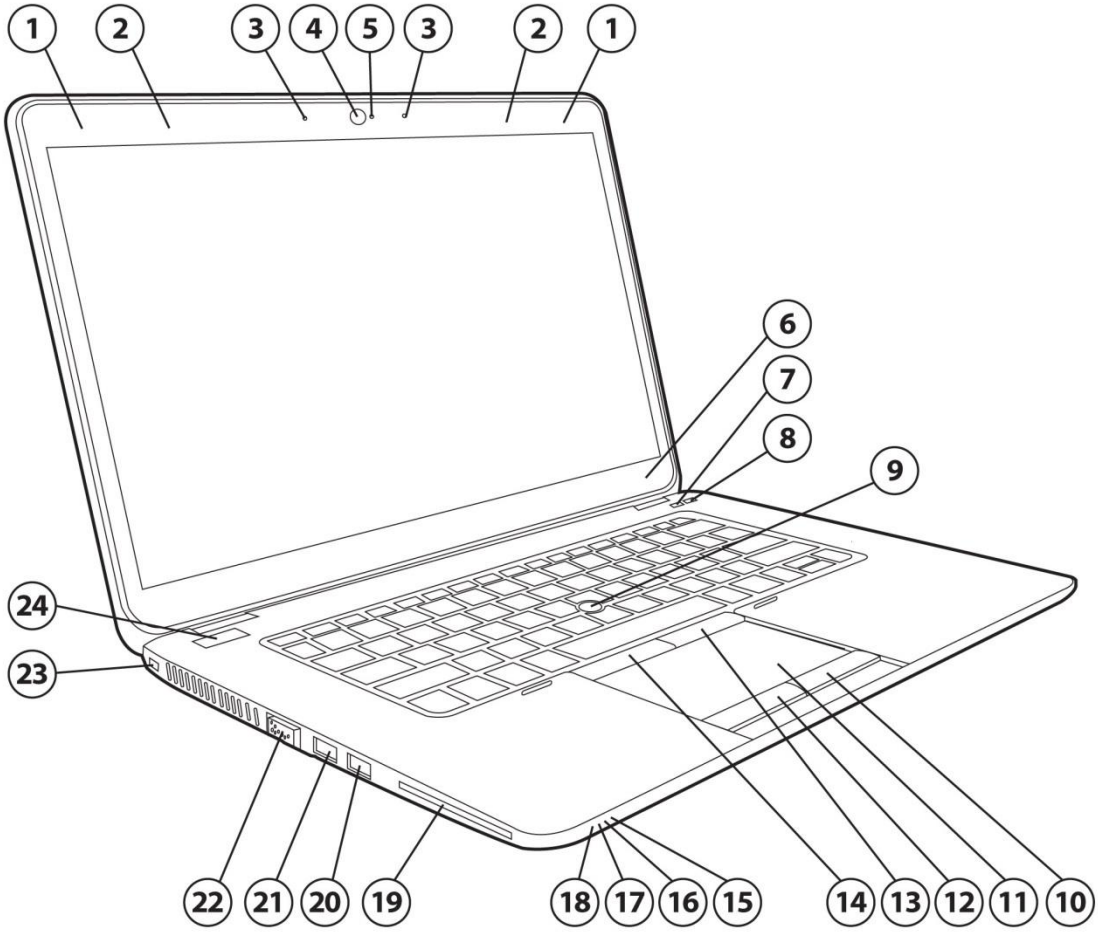
Overview



1. Slice battery connector
2. EasyAccess panel
3. EasyAccess panel release latch
4. Service door release lock
5. Vents (2)
6. SIM slot

Overview

HP EliteBook 755 G2 Notebook PC

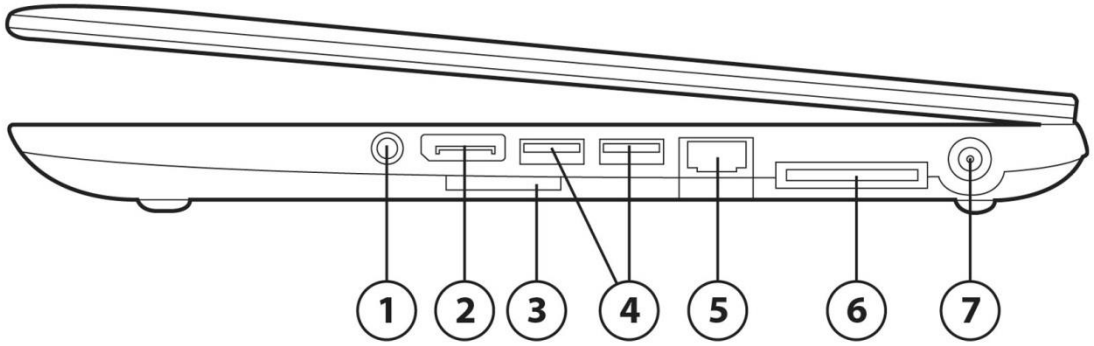


Front/Left

1. WLAN antennas (2)
2. WWAN antennas (2)
3. Internal microphones (2)
4. Webcam (select models only)
5. Webcam light (select models only)
6. Internal display switch
7. Wireless button
8. Volume mute button
9. Pointstick
10. Right TouchPad button
11. TouchPad zone
12. Left TouchPad button
13. Right pointing stick button
14. Left pointing stick button
15. Hard drive light
16. AC adapter/Battery light
17. Power light
18. Wireless light
19. Smart card reader
20. USB 3.0 port
21. USB 3.0 charging port
22. External VGA monitor port
23. Security cable slot
24. Power button

QuickSpecs

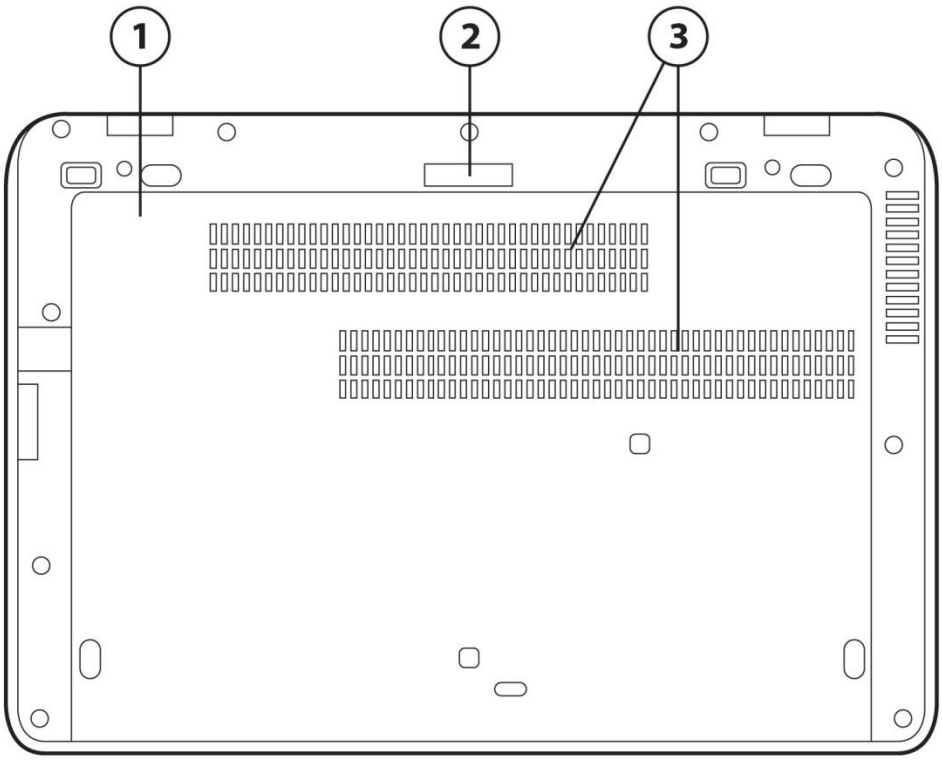
Overview



Right

1. Audio-out (headphone) jack/Audio-in(microphone) jack
2. DisplayPort
3. Memory card reader
4. USB 3.0 ports (2)
5. Drop-jaw Ethernet port (RJ-45)
6. Docking port
7. Power connector

Overview



Bottom

1. EasyAccess panel
2. EasyAccess panel release lock
3. Vents (2)

Overview

AT A GLANCE

- Windows 8.1 versions, Windows 7 Pro 64 bit (available through downgrade rights from Windows 8.1 Pro), Windows 7 versions, Ubuntu Linux or FreeDOS
- Magnesium and aluminum chassis, HP DuraFinish, HP DisplaySafe frame, HP DuraKeys, precision aluminum drop hinge, aluminum palm rest
- 4-step Soft-touch paint process
- Drop-jaw Ethernet port
- EasyAccess door to quickly access most components for easy serviceability
- Full-sized spill-resistant keyboard; optional back-lit keyboard keeps you productive in low-light settings
- Ensured durability through MIL-STD 810G testing, plus an additional 115,000 hours of reliability testing through HP's Total Test Process
- Accelerated Processing Unit and graphics from AMD
- LED-backlit display
    - HP EliteBook 725: 12.5-inch diagonal HD or FHD Touch
    - HP EliteBook 745: 14.0-inch diagonal HD, HD+ or FHD (including a touch-enabled option) Planned to be available in July 2014.
    - HP EliteBook 755: 15.6-inch diagonal HD or FHD (including a touch-enabled option),
- Easily hot dock with the 2013 UltraSlim Docking Station
- DisplayPort for high resolution support
- Touchpad with scroll zone, on/off button with LED indicator
- Enhanced security features including HP Sure Start self-healing BIOS, HP Client Security, and optional HP Fingerprint Reader
- Optional HD webcam with dual-microphone array for video conferencing
- HD Audio with DTS Studio Sound optimized for high fidelity audio
- Wireless and speaker mute buttons
- Flexible wireless connectivity options:
    - HP Connection Manager allows full control over wireless connections, including 3G and 4G mobile broadband, Wi-Fi, Ethernet and Bluetooth® (Win 7 only)
    - Integrated HP Mobile Broadband Modules
    - Integrated HP Qualcomm® Gobi ™ 4G Mobile Broadband Modules
    - HP Wireless Hotspot (Win 8.1 Only)
    - HP Mobile Connect (EMEA Only) (Win 8.1 Only)
- Choice of 7200 rpm user-removable hard drive (up to 500 GB on EliteBook 725, 1 TB on EliteBook 745 and 755) with HP 3D DriveGuard, 5400 rpm user-removable hard drive (up to 1 TB on EliteBook 725), 500 GB 7200 rpm Self Encrypting Drive, 500 GB 5400 rpm FIPS Self Encrypting Drive, 180/256 GB SED Solid State Drive, or 128/180/240 GB Solid State Drive

NOTE: See important legal disclosures for all listed specs in their respective features sections.

Features

PRODUCT NAMES

HP EliteBook 725 G2 Notebook PC
HP EliteBook 745 G2 Notebook PC
HP EliteBook 755 G2 Notebook PC

OPERATING SYSTEM

Preinstalled	Windows 8.1 64-bit* Windows 8.1 Pro 64-bit* Windows 7 Professional 64-bit (available through downgrade rights from Windows 8.1 Pro 64-bit)** Windows 7 Professional 32*** Windows 7 Professional 64*** Windows 7 Home Premium 32*** Windows 7 Home Premium 64*** Ubuntu Linux FreeDOS 2.0
Web support	Windows 7 Enterprise 64/32, Windows 8.1 Enterprise 64

* Not all features are available in all editions of Windows 8.1. Systems may require upgraded and/or separately purchased hardware, drivers and/or software to take full advantage of Windows 8.1 functionality. See http://www.microsoft.com for details.
** This system is preinstalled with Windows® 7 Pro software and also comes with a license and media for Windows 8.1 Pro software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.
*** Not all features are available in all editions of Windows 7. This system may require upgraded and/or separately purchased hardware to take full advantage of Windows 7 functionality. See http://www.microsoft.com/windows/windows-7/ for details.

ACCELERATED PROCESSING UNIT

AMD A10 Pro-7350B APU (3.3 GHz/2.1 GHz, 4MB L2 cache, 4 cores) with AMD Radeon™ R6 Graphics
AMD A8 Pro-7150B APU (3.2 GHz/2.0 GHz, 4MB L2 cache, 4 cores) with AMD Radeon™ R5 Graphics
AMD A6 Pro-7050B APU (3.0 GHz/2.2 GHz, 1MB L2 cache, 2 cores) with AMD Radeon™ R4 Graphics

*This system requires a separately purchased 64-bit operating system and 64-bit software products to take advantage of the 64-bit processing capabilities of AMD technology. Multi-core processing with AMD technology is designed to improve performance of this system. Given the wide range of SW applications available, performance will vary. AMD's numbering is not a measurement of clock speed.
NOTE: Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.

CHIPSET

AMD A76M Controller Hub (FCH)

GRAPHICS

Features

Integrated Graphics:
AMD A10 Pro-7350B Accelerated Processor with AMD Radeon™ R6 Graphics
AMD A8 Pro-7150B APU Accelerated Processor with AMD Radeon™ R5 Graphics
AMD A6 Pro-7050B APU Accelerated Processor with AMD Radeon™ R4 Graphics

DISPLAY

HP EliteBook 725

Internal
12.5" diagonal HD anti-glare SVA flat (1366 x 768)
12.5" diagonal FHD UWVA slim (1920 x 1080) Touch*
External
Up to 32-bit per pixel color depth
VGA
Port supports resolutions up to 1920 x 1200 external resolution@60 Hz
DisplayPort
Supports resolutions up to 3200x2000 @ 60Hz

Number of Displays with 2013 UltraSlim Docking Station	UMA
EliteBook 725	3

* Touch panel has chemically-strengthened Corning® Gorilla® Glass 3 top cover

HP EliteBook 745

Internal
14.0" diagonal HD anti-glare SVA flat(1366 x 768)
14.0" diagonal HD+ anti-glare SVA flat(1600 x 900)
14.0" diagonal FHD anti-glare UWA slim(1920 x 1080)
14.0" diagonal FHD UWA slim(1920 x 1080) touch Planned to be available July 2014.

External
Up to 32-bit per pixel color depth
VGA
Port supports resolutions up to 1920 x 1200 external resolution @60 Hz
DisplayPort
Supports resolutions up to 3200x2000 @ 60Hz

Number of Displays with 2013 UltraSlim Docking Station*	UMA
EliteBook 745	3

NOTE: HD content required to view HD images.
NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

HP EliteBook 755

Internal
15.6" diagonal HD anti-glare SVA flat (1366 x 768)
15.6" diagonal FHD anti-glare SVA slim (1920 x 1080)
15.6" diagonal FHD SVA slim (1920 x 1080) Touch*
External
Up to 32-bit per pixel color depth
VGA
Port supports resolutions up to 1920 x 1200 external resolution @60 Hz
DisplayPort
Supports resolutions up to 3200x2000 @ 60Hz

* Touch panel has chemically-strengthened Corning® Gorilla® Glass 3 top cover

Number of Displays with 2013 UltraSlim Docking Station*	UMA
EliteBook 755	3

NOTE: HD content required to view HD images.
NOTE: Resolutions are dependent upon monitor capability, and resolution and color depth settings.

STORAGE AND DRIVES

Primary Storage Bay
Hard Drives*
1 TB 5400 rpm SATA II Hard Drive (EliteBook 725 only)
320/500 GB 7200 rpm SATA II Hard Drive
1 TB 7200 rpm SATA II Hard Drive (EliteBook 745 and 755 only)
500 GB 7200 rpm SED (Self Encrypting Drive)
500 GB 5400 rpm FIPS** SED (Self Encrypting Drive)

Solid State Drive*
128/180/240 GB 2.5" Solid State Drive
180/256 GB SED Solid State Drive

HP 3D DriveGuard (Windows only)
The hard drive is mounted directly to the notebook frame, reducing the transmission of shock to the hard drive

*For hard drives and solid state drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and 30 GB (for Windows 8.1) of system disk is reserved for the system recovery software.

Features

** FIPS-certified, hardware-based AES-256 encryption image

NOTE: For Solid State Drives (SSD), GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB for Windows 8.1 is reserved for system recovery software.

MEMORY

Standard
DDR3L SDRAM (1600 MHz)
Two SODIMM slots supporting dual-channel memory
4 GB and 8 GB* SODIMMs
Maximum
Upgradeable to 16384 MB with optional 8192 MB SODIMMs in slots 1 and 2*
Dual-channel
Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.

* Maximum memory capacities assume Windows 64-bit operating systems or Linux. With Windows 32-bit operating systems, memory above 3 GB may not all be available due to system resource requirements.
NOTE: Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

NETWORKING/COMMUNICATIONS

Wireless
Support for a broad range of secure, integrated wireless LAN and wireless WAN options featuring support for the latest industry standards. Broadband Wireless (WWAN) is available in select countries. Wireless LAN and integrated Bluetooth are also available (both are factory configurable only) and can be combined with any of the supported wireless WAN options.
Broadband Wireless (WWAN)
HP hs3110 HSPA+ Mobile Broadband Module*
HP lt4211 LTE/EV-DO/HSPA+ Qualcomm® Gobi ™ 4G Module (US)*,** (Planned to be available July 2014)
HP lt4112 LTE/HSPA+ Qualcomm® Gobi™ 4G Module (EMEA, APJ) *,**
Wireless LAN (WLAN)***
Broadcom 802.11 a/b/g/n AC (2x2) and Bluetooth® 4.0***
Broadcom 802.11a/b/g/n (2x2) and Bluetooth® 4.0***
Atheros 802.11b/g/n (1x1)***

* WWAN is an optional feature sold separately or as an add-on feature. WWAN connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors.
** 4G LTE not available on all products, and in all regions.
***Wireless access point and Internet service is required and is not included. Availability of public wireless access points limited.

Communications
Realtek RTL8111EP 10/100/1000* Ethernet NIC with DASH Support
* The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

Features

AUDIO/MULTIMEDIA

Audio
HD Audio with DTS Studio Sound
2 Integrated stereo speakers
Integrated dual-microphone array; located in the display
Function keys for microphone mute, volume up, volume down
Stereo headphone/line out
Stereo microphone/line in

Webcam
Optional 720p HD* webcam

- HD format (widescreen)
- Supports videoconferencing (non-HD) and still image capture
- High quality fixed focus lens
- Video capture at various resolutions up to 1280x720 resolution (720p) and up to 30fps
- M-JPEG compression supports higher frame rates for video capture and videoconferencing
- Improved low light sensitivity
- Improved dynamic range
- Skype-ready **

* HD content required to view HD images.
**Internet access required.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
The HP spill-resistant keyboard is designed using a thin layer of Mylar film under the keyboard and includes an all-metal keyboard deck for greater rigidity. The 101/102-key compatible keyboard features a full-pitch key layout with desktop keyboard features, such as editing keys, both left and right control and alt keys, and function keys. US and International key layouts are available. Backlit keyboard available as an option.
Pointing Devices
Touchpad with scroll zone, on/off button with LED indicator, two-way scroll, two pick buttons
Buttons and Function Keys
Separate discrete buttons provide easy access to WLAN on/off and speaker mute. Function keys provide control of features including: standby mode, display brightness, external display, microphone mute, volume down, and volume up.

SOFTWARE AND SECURITY

Preinstalled Software with Windows Operating System

BIOS
HP BIOSphere*
HP Sure Start**
HP DriveLock | HP Automatic Drive Lock
HP BIOS Protection***
HP Disk Sanitizer ****
HP SpareKey*****
Update via Network

Features

Master Record Security
Power On Authentication
Pre-Boot Security
Secure Erase******
Hybrid Boot
Measured Boot
Secure Boot
Absolute Persistence Module*******

* Available only on business PCs with HP BIOS.
** HP SureStart is the first and only self-healing technology solution created to protect against Malware and Security attacks aimed at the BIOS. Available only EliteBooks and ZBooks.
*** May require a manual recovery step for recovery if all copies of BIOS are compromised or deleted. Feature not supported on ElitePads. HP Business Desktops introduced prior to 2013 do not support this HP BIOS Protection auto-recovery feature.
**** For the use cases outlined in the DOD 5220.22-M Supplement. Only supports traditional Hard Drives.
***** Requires initial user set up.
****** For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.
******* Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.

Standard Security Features
HP Client Security with Credential Manager and Password Manager (Windows only)
HP Device Access Manager with Just in Time Authentication (Windows only)
HP Drive Encryption (FIPS 140-2 certified)* (Windows only)
HP File Sanitizer** (Windows only)
Microsoft Security Essentials (Windows 7 only)***

Absolute Persistence Module (Windows only)
TPM Embedded Security Chip 1.2 (EAL4+ Certified)

Optional Security Features
Intel® Anti-Theft******
Intel Identity Protection*******
HP Fingerprint reader

NOTE: The Absolute Persistence agent is shipped turned off, and must be activated by customers when they purchase a subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S.

* Requires Windows. Data is protected prior to Drive Encryption login. Turning the PC off or into hibernate logs out of Drive Encryption and prevents data access.
** For the use cases outlined in the DOD 5220.22-M Supplement. Supports standard Hard Drives. Initial setup required.
*** Opt in and internet connection required for updates.
***** In order to deploy and receive updated policies, the client needs to be connected to the network server and requires

Features

separately purchased DigitalPersona Pro software. System access may not prevent users from logging into the system on the first attempt if policy updates haven't yet been received and applied. Not all features are remotely manageable.
******** Intel Anti-Theft security is supported on Intel Core i processors and requires a separately purchased Absolute Computrace service subscription and must be activated and configured. Check with Absolute for availability in your country. Intel and HP assume no liability for lost or stolen data and/or systems or any other damages resulting therefrom. See http://www.intel.com/technology/anti-theft/.
********* Intel Identity Protection feature is only available with Intel Core Processors. Intel® IPT security requires separate Symantec VIP software service subscription and must be activated and configured. Requires a website that uses Symantec VIP Authentication Service and Microsoft® Windows. Intel® and HP assume no liability for lost or stolen data and/or systems or any other damages resulting therefrom.

For more information on HP security solutions refer to: http://www.hp.com/go/protecttools.

Communication
HP Connection Manager (Windows 7 only)
HP GPS and Location*
HP Mobile Connect (Windows 8.1 in select countries only)**
HP Wireless Hotspot*** (Windows 8.1 only)
HP Roaming Alert

MultiMedia
CyberLink PowerDVD

HP Value Add Software
Getting Started with Windows 8.1
HP 3D DriveGuard (Windows required)
HP ePrint Driver (HP Exclusive)****
HP Hotkey Support
HP PageLift (HP Exclusive with Windows 8.1)
HP Recovery Manager (Windows 7 only)
HP Support Assistant W8
HP Recovery Disc Creator (Windows 7 only)
UEFI System Diagnostics W8

3rd Party
Adobe® Flash Player (Commercial)
Bing Search
Skype*****
Buy Office
Lync Optimized******

NOTE: HP Recovery Manager enables fast recovery of the factory preinstalled image if the system becomes corrupted or if important system files are accidentally deleted. Up to 16 GB (for Windows 7) and 36 GB (for Windows 8) of system disk is reserved for the system recovery software.

*GPS access requires an unobstructed path to multiple satellites. Performance may be affected if/when used inside of buildings, bridges or heavily congested metropolitan areas. Requires separately purchased GPS navigation software available from multiple GPS applications.
**Internet access required.

Features

*** The wireless hotspot application requires an active internet connection and separately purchased data plan. While HP wireless hotspot is active, on-device applications will continue to work and will use the same data plan as the wireless hotspot. Wireless hotspot data usage may incur additional charges. Check with your service provider for plan details. Requires Windows.
****Requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/eprint).
***** Skype is not offered in China.
****** Lync software is sold separately. Requires internet access.

POWER

Power Supply

HP EliteBook 725 G2 Notebook PC
HP 45W Smart AC Adapter
45W 2-prong 7.4mm DC jack AC Adapter (Only for Japan)
HP 65W Smart EM AC Adapter (China and India only)
HP 65W Slim Smart AC Adapter (Japan and Australia only)
Power cord is configurable; either 3.2 feet or 6 feet (1.0 or 1.8 meter)
Total length including external AC adapter is 9.2 feet or 12 feet (2.86 or 3.66 meter).

HP EliteBook 745 G2 Notebook PC
Integrated graphics:
HP 45W Smart AC adapter
45W 2-prong 7.4mm DC jack AC Adapter (Only for Japan)
HP 65W EM Smart AC adapter (China and India only)
HP 65W Slim Smart AC adapter (Japan and Australia only)
Power cord is configurable; either 3.2 feet or 6 feet (1.0 or 1.8 meter)
Total length including external AC adapter is 9.2 feet or 12 feet (2.86 or 3.66 meter).

HP EliteBook 755 G2 Notebook PC
Integrated graphics:
HP 45W Smart AC adapter
45W 2-prong 7.4mm DC jack AC Adapter (Only for Japan)
HP 65W EM Smart AC adapter (China and India only)
HP 65W Slim Smart AC adapter (Japan and Australia only)

Power cord is configurable; either 3.2 feet or 6 feet (1.0 or 1.8 meter)
Total length including external AC adapter is 9.2 feet or 12 feet (2.86 or 3.66 meter).

HP EliteBook 725 G2 Notebook PC

Primary Battery
3-cell HP Long Life 26 WHr
3-cell HP Long Life 46 WHr

HP EliteBook 745 G2 Notebook PC

Features

Primary Battery
3-cell HP Long Life 24WHr
3-cell HP Long Life 50 WHr
Secondary Battery
6-cell HP Long Life Slice 60 WHr (optional)

HP EliteBook 755 G2 Notebook PC

Primary Battery
3-cell HP Long Life 24WHr
3-cell HP Long Life 50 WHr

NOTE: Battery warranty is 1 year or three years, depending on the platform warranty.

Battery Life*

	Configurations with integrated graphics (Windows 7)
HP EliteBook 725 G2	
3-cell (46 WHr) battery with hard drive	Up to 7 hours 45 minutes
3-cell (26 WHr) battery with 2.5" solid state drive	Up to 5 hours
3-cell (46 WHr) battery with 2.5" solid state drive	Up to 9 hours
HP EliteBook 745 G2	
3-cell (50 WHr) battery with hard drive	Up to 9 hours
3-cell (24 WHr) battery with 2.5" solid state drive	Up to 4 hours 45 minutes
3-cell (50 WHr) battery with 2.5" solid state drive	Up to 10 hours 15 minutes
3-cell (50 WHr) battery + Slice (60 WHr) with 2.5" solid state drive	Up to 22 hours 30 minutes
HP EliteBook 755 G2	
3-cell (50 WHr) battery with hard drive	Up to 8 hours
3-cell (24 WHr) battery with 2.5" solid state drive	Up to 4 hours 30 minutes
3-cell (50 WHr) battery with 2.5" solid state drive	Up to 9 hours 45 minutes

System Standby Time**
Up to 179 hours UMA (725), up to 156 hours UMA (745 and 755)

Features

* Windows 7 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

** Standby life will vary depending on various factors including battery, Memory, CPU, EC and LAN chip. The maximum capacity of the battery will naturally decrease with time and usage.

Power Conservation
Supports enhanced Intel SpeedStep technology (allows Battery Optimized Mode, Maximum Performance Mode, or Automatic mode)
Hibernation
Standby
ACPI compliance

WEIGHTS & DIMENSIONS

HP EliteBook 725

Dimensions
Depth: 215.3 (8.48")
Width: 311 (12.25")
Height: 21.0 (0.83")
Height w Touch: 24.8 (0.98")

Specs are in mm. Inches shown for reference.

Weight
3.00 lb (1.36 kg)
3-cell (26 Whr) battery, HD, no FPR, 1 SODIMM, WLAN, lightest SSD, no camera, no WWAN, no Touch

3.20 lb (1.45 kg)
3-cell (46 Whr) battery, HD, no FPR, 1 SODIMM, WLAN, lightest SSD, no camera, no WWAN, no Touch

3.61 lb (1.63 kg)
3-cell (46 Whr) battery, FHD, no FPR, 1 SODIMM, WLAN, lightest SSD, no camera, no WWAN, Touch

All measurements lbs (kg)

HP EliteBook 745

Dimensions
Depth: 237.0mm (9.33")
Depth w Touch: 237.0mm (9.33")
Width: 339.0mm (13.34")
Width w Touch: 339.0mm (13.34")
Height: 21.0mm (.0826")
Height w Touch: 21.6mm (0.850")

Specs are in mm. Inches shown for reference.

Features

Weight
3.55 lb (1.61 kg)
3-cell (24Whr) battery, HD panel, UMA, no FPR, one SODIMM, WLAN, lightest SSD, no camera, no WWAN

3.91 lb (1.77 kg)
3-cell (24Whr) battery, HD+ Touch panel, UMA, no FPR, one SODIMM, WLAN, lightest SSD, no camera, no WWAN

3.75 lb (1.70 kg)
3-cell (50Whr) battery, HD panel, UMA, no FPR, one SODIMM, WLAN, lightest SSD, no camera, no WWAN

4.11 lb (1.86 kg)
3-cell (50Whr) battery, HD+ Touch panel, UMA, no FPR, one SODIMM, WLAN, lightest SSD, no camera, no WWAN

All measurements lbs (kg)

HP EliteBook 755

Dimensions
Depth: 253.6mm (9.98")
Depth w Touch: 253.6mm (9.98")
Width: 375.5mm (14.78")
Width w Touch: 375.5mm (14.78")
Height: 21.49mm (0.846")
Height w Touch: 25.8mm (1.015")

Specs are in mm. Inches shown for reference.

Weight
4.19 lb (1.90kg)
3-cell (24Whr) battery, HD panel, UMA, no FPR, one SODIMM, WLAN, lightest SSD, no camera, no WWAN

4.68 lb (2.12 kg)
3-cell (24Whr) battery, FHD Touch panel, UMA, no FPR, one SODIMM, WLAN, lightest SSD, no camera, no WWAN

4.39 lb (1.99 kg)
3-cell (50Whr) battery, HD panel, UMA, no FPR, one SODIMM, WLAN, lightest SSD, no camera, no WWAN

4.88 lb (2.21 kg)
3-cell (50Whr) battery, FHD Touch panel, UMA, no FPR, one SODIMM, WLAN, lightest SSD, no camera, no WWAN

All measurements lbs (kg)

PORTS/SLOTS

Ports
USB 3.0 – Two for EliteBook 725, Three for EliteBook 745 and EliteBook 755
USB 3.0 (charging) – One
DisplayPort 1.2 – One
VGA – One

Features

Headphone/Microphone combo port – One
RJ-45 (Ethernet) – One
Power connector – One
Side docking connector – One
Secondary battery connector* – One

Expansion Slots
Media Card Reader
- supports SD, SDHC, SDXC

* EliteBook 745 only.

SERVICE AND SUPPORT

Limited 3-year, 1-year and 90-day warranty options available, depending on country, 3-year limited warranty on HP Long Life Battery (only available with 3-year platform warranty). Optional* HP Care Pack Services** are extended service contracts which go beyond your standard warranties. For more details visit: http://www.hp.com/go/lookuptool.

*Sold separately or as an optional feature.
** Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. Consult the HP Customer Support Center for details. http://h20000.www2.hp.com/bizsupport/TechSupport/ProductRoot.jsp

NOTE: Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc

NOTE: Long Life battery warranty is 1 year or three years, depending on the platform warranty

QuickSpecs

Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)	**Nominal Operating Voltage**	19.5 V	
	Average Operating Power	**Windows 7 (64-bit)**	**Windows8 (64-bit)**
	EliteBook 725 Integrated graphics	4.75 W	4.26 W
	EliteBook 745 Discrete graphics	4.18 W	5.42 W
	EliteBook 745 Integrated graphics	4.8 W	4.49 W
	EliteBook 755 Discrete graphics	4.14 W	3.91 W
	EliteBook 755 Integrated graphics	4.09 W	4.18 W
	Max Operating Power	Discrete < 90W UMA < 65W	
Temperature	**Operating**	32° to 95° F (0° to 35° C) (not writing optical) 41° to 95° F (5° to 35° C) (writing optical)	
	Non-operating	-4° to 140° F (-20° to 60° C)	
Relative Humidity	**Operating**	10% to 90%, non-condensing	
	Non-operating	5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature	
Shock	**Operating**	40 G, 2 ms, half-sine	
	Non-operating	200 G, 2 ms, half-sine	
Random Vibration	**Operating**	0.75 grms	
	Non-operating	1.50 grms	
Altitude (unpressurized)	**Operating**	-50 to 10,000 ft (-15.24 to 3,048 m)	
	Non-operating	-50 to 40,000 ft (-15.24 to 12,192 m)	
Planned Industry Standard Certifications	**UL**	Yes	
	CSA	Yes	
	FCC Compliance	Yes	
	ENERGY STAR®	Select models*	
	EPEAT®	Registered Gold in United States**	
	ICES	Yes	
	Australia / NZ A-Tick Compliance	Yes	
	CCC	Yes	
	Japan VCCI Compliance	Yes	
	KC	Yes	
	BSMI	Yes	
	CE Marking Compliance	Yes	
	BNCI or BELUS	Yes	
	CIT	Yes	
	GOST	Yes	
	Saudi Arabian Compliance (ICCP)	Yes	
	SABS	Yes	
	UKRSERTCOMPUTER	Yes	

* Configurations of the HP EliteBook 725, HP EliteBook 745 and HP EliteBook 755 that are ENERGY STAR® qualified are identified as HP EliteBook 725 ENERGY STAR, HP EliteBook 745 ENERGY STAR and HP EliteBook 755ENERGY STAR on HP websites and on www.energystar.gov.

** EPEAT® registration varies by country. See www.epeat.net for registration status by country.

QuickSpecs

Technical Specifications

EPEAT status listed above applies to U.S.

For accessibility information on HP products, please visit: http://www.hp.com/accessibility.

DISPLAYS

12.5" diagonal LED-backlit HD anti-glare SVA flat (1366 x 768)	**Outline Dimensions** (W x H x D)	11.46 x 7.14 x 0.14 in (29.1 x18.14 x 0.36 cm)	
	Active Area	10.89 x 6.12 in (27.6615 x 15.552 cm)	
	Weight	0.6 lb (270g) (max)	
	Diagonal Size	12.5 in (35.75 cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	300:1 (min)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	**Format**	1366 x 768 (HD)
		Configuration	RGB Stripe
	Interface	eDP 1.2 (1 lane)	
	LCD Mode	TN	
	PPI	125 ppi	
	Viewing Angle	SVA 40/40/15/30 (Left/Right/Down/Up)	
14" diagonal LED-backlit HD anti-glare SVA flat (1366 x 768)	**Outline Dimensions** (W x H x D)	12.6 x 8.09 x 0.14 in (32.09 x 20.56 x 0.36 cm)	
	Active Area	12.18 x 6.85 in (30.94 x 17.395 cm)	
	Weight	0.71 lb (320g) (max)	
	Diagonal Size	14.0 in (35.6cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	300:1 (min)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	**Format**	1366 x 768 (HD)
		Configuration	RGB Stripe
	Interface	eDP 1.2 (1 lane)	
	LCD Mode	TN	
	PPI	125 ppi	
	Viewing Angle	SVA 40/40/15/30 (Left/Right/Down/Up)	
	Outline Dimensions (W x H x D)	12.6 x 8.09 x 0.14 in (32.09 x 20.56 x 0.36 cm)	

Technical Specifications

14" diagonal LED-backlit HD+ anti-glare SVA flat (1600 x 900)	**Active Area**	12.19 x 6.86 in (30.96 x 17.415 cm)	
	Weight	0.72 lb (325 g) (max)	
	Diagonal Size	14.0 in (35.6cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	300:1 (min)	
	Refresh Rate	60 Hz	
	Brightness	250 nit (typical)	
	Pixel Resolution	**Format**	1600 x 900 (HD+)
		Configuration	RGB Stripe
	Interface	eDP 1.2 (1 lane)	
	LCD Mode	TN	
	PPI	131 ppi	
	Viewing Angle	SVA 40/40/15/30 (Left/Right/Down/Up)	

14" diagonal LED-backlit FHD anti-glare UWVA slim (1920 x 1080)	**Outline Dimensions** (W x H x D)	12.6 x 8.09 x 0.12 in (32.09 x 20.56 x 0.3 cm)
	Active Area	12.18 x 6.85 in (30.93 x 17.4 cm)
	Weight	0.75 lb (340 g) (max)
	Diagonal Size	14.0 in (35.6cm)
	Surface Treatment	Anti-glare

	Contrast Ratio	600:1 (min)	
	Refresh Rate	60 Hz	
	Brightness	300 nit (typical)	
	Pixel Resolution	**Format**	1920 x 1080 (FHD)
		Configuration	RGB Stripe
	Interface	eDP 1.3+PSR (2 lane)	
	LCD Mode	IPS/FFS/VA	
	PPI	157 ppi	
	Viewing Angle	UWVA 85/85/85/85 (Left/Right/Down/Up)	
14.0" diagonal FHD UWA slim(1920 x 1080) touch	**TBD**		
15.6" diagonal LED-backlit HD anti-glare SVA flat (1366 x 768)	**Outline Dimensions** (W x H x D)	14.17 x 8.83 x 0.15 in (36.0 x 22.43 x 0.38 cm)	
	Active Area	13.55 x 7.62 in (34.42 x 19.35 cm)	
	Weight	< 1.1 lb (500 g) (max)	
	Diagonal Size	15.6 in (39.62 cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	300:1 (min)	
	Refresh Rate	60 Hz	
	Brightness	200 nit (typical)	
	Pixel Resolution	**Format**	1366 x 768 (HD)
		Configuration	RGB Stripe
	Interface	eDP 1.2 (1 lane)	
	LCD Mode	TN	
	PPI	101 ppi	
	Viewing Angle	SVA 40/40/15/30 (Left/Right/Down/Up)	
15.6" diagonal LED-backlit FHD anti-glare SVA flat (1920 x 1080)	**Outline Dimensions** (W x H x D)	14.17 x 8.83 x 0.15 in (36.0 x 22.43 x 0.32 cm)	
	Active Area	13.55 x 7.62 in (34.42 x 19.36 cm)	
	Weight	< 0.84 lb (380 g) (max)	
	Diagonal Size	15.6 in (39.62 cm)	
	Surface Treatment	Anti-glare	
	Contrast Ratio	400:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	300 nit (typical)	

	Pixel Resolution	**Format**	1920 x 1080 (FHD)
		Configuration	RGB Stripe
	Interface	eDP 1.2 (2 lane)	
	LCD Mode	TN	
	PPI	142 ppi	
	Viewing Angle	SVA 45/45/25/35 (Left/Right/Down/Up)	
15.6" diagonal FHD SVA slim (1920 x 1080) Touch	**Outline Dimensions** (W x H x D)	14.17 x 8.83 x 0.15 in (36.0 x 22.43 x 0.32 cm)	
	Active Area	13.55 x 7.62 in (34.42 x 19.36 cm)	
	Weight	< 0.84 lb (380 g) (max)	
	Diagonal Size	15.6 in (39.62 cm)	
	TSP Type	Capacitive	
	Touch point supported	Min 5-point & Max 10-point for Win8	
	Contrast Ratio	400:1 (typical)	
	Refresh Rate	60 Hz	
	Brightness	300 nit (typical)	
	Pixel Resolution	**Format**	1920 x 1080 (FHD)
		Configuration	RGB Stripe
	Interface	eDP 1.2 (2 lane)	
	LCD Mode	TN	
	PPI	142 ppi	
	Viewing Angle	SVA 45/45/25/35 (Left/Right/Down/Up)	

STORAGE AND DRIVES

Internal Storage

1 TB* 5400 rpm SATA Hard Drive	**Drive Weight**	0.254 lb (115 g)	
	Capacity	1 TB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	**Synchronous** (maximum)	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	**Single Track**	3 ms
		Average	13 ms
		Maximum	24 ms
	Rotational Speed	5400 rpm	
	Logical Blocks	1,953,525,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	

Technical Specifications

	Features	ATA Security	
500 GB* 5400 rpm SATA FIPS Hard Drive**	**Drive Weight**	0.25 lbs (95g)	
	Capacity	500 GB	
	Height	0.28 in (7 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	**Synchronous** (maximum)	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	**Single Track**	1.5 ms
		Average	11 ms
		Maximum	22 ms
	Cache	16 MB	
	Rotational Speed	5400 rpm	
	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	
320 GB* 7200 rpm SATA Hard Drive	**Drive Weight**	0.25 lbs (115 g)	
	Capacity	320 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	**Synchronous** (maximum)	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	**Single Track**	1.5 ms
		Average	11 ms
		Maximum	22 ms
	Cache	16 MB	
	Rotational Speed	7200 rpm	
	Logical Blocks	625,142,448	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	
500 GB* 7200 rpm SATA Hard Drive	**Drive Weight**	0.25 lbs (115g)	
	Capacity	500 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	

Technical Specifications

	Transfer Rate	**Synchronous** (maximum)	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	**Single Track**	1.5 ms
		Average	11 ms
		Maximum	22 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	
1 TB* 7200 rpm SATA Hard Drive	**Drive Weight**	0.25 lbs (115g)	
	Capacity	1 TB	
	Height	0.37 in (9.5 mm)	
	Width	2.75 in (70 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s, NCQ	
	Transfer Rate	**Synchronous** (maximum)	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	**Single Track**	1.5 ms
		Average	11 ms
		Maximum	22 ms
	Rotational Speed	7200 rpm	
	Logical Blocks	1,953,525,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	
500 GB* 7200 rpm SMART SATA II Self Encrypting Drive	**Drive Weight**	0.25 lbs (115g)	
	Capacity	500 GB	
	Height	0.37 in (9.5 mm)	
	Width	2.50 in (63.5 mm)	
	Interface	ATA-8, SATA 2.6, 3.0 Gb/s	
	Transfer Rate	**Synchronous** (maximum)	300 MB/s (Drive Capability)
	Seek Time (typical reads, including settling)	**Single Track**	1 ms
		Average	12 ms
		Maximum	20 ms
	Cache	16 MB	
	Rotational Speed	7200 rpm	
	Logical Blocks	976,773,168	
	Operating Temperature	32° to 140° F (0° to 60° C) [case temp]	
	Features	ATA Security	
SATA 6 Gb/s 128 GB*, 2.5-inch Solid State Drive	**Drive Weight**	73 Grams	
	Capacity	128 GB	

	Height	0.276 in (7 mm)	
	Width	2.76 in (70 mm)	
	Interface	SATA 3 (6 Gb/s)	
	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		415 MB/s	175 MB/s
	Logical Blocks	250,069,680	
	Operating Temperature	32° to 158°F (0° to 70°C) [case temp]	
	Features	ATA Security; ATA-8; SATA 3.0; DIPM; TRIM	
SATA 6 Gb/s 180 GB*, 2.5-inch SATA Solid State Drive	**Drive Weight**	78 Grams	
	Capacity	180 GB	
	Height	0.276 in (7 mm)	
	Width	2.76 in (70 mm)	
	Interface	SATA Gen 3 (6 Gb/s)	
	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		Up to 550 MB/s	Up to 520 MB/s
	Logical Blocks	351,651,888	
	Operating Temperature	32° to 158°F (0° to 70°C) [case temp]	
	Features	ATA Security; ATA-8, SATA 3.0; DIPM; TRIM	
SATA 6 Gb/s 240 GB*, 2.5-inch Solid State Drive	**Drive Weight**	78 Grams	
	Capacity	240 GB	
	Height	0.276 in (7 mm)	
	Width	2.76 in (70 mm)	
	Interface	SATA Gen 3 (6 Gb/s)	
	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		550 MB/s	520 MB/s
	Logical Blocks	468,862,128	
	Operating Temperature	32° to 158°F (0° to 70°C) [case temp]	
	Features	ATA Security; ATA-8, SATA 3.0; DIPM; TRIM	
SATA 6 Gb/s 180 GB*, 2.5-inch SATA SED Solid State Drive	**Drive Weight**	Up to 78 Grams	
	Capacity	180 GB	
	Height	0.276 in (7 mm)	
	Width	2.76 in (70 mm)	
	Interface	SATA Gen 3 (6 Gb/s)	

	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		Up to 550 MB/s	Up to 520 MB/s
	Logical Blocks	351,651,888	
	Operating Temperature	32° to 158°F (0° to 70°C) [case temp]	
	Features	ATA Security; ATA-8, SATA 3.0; DIPM; TRIM, TCG Opal Compliant	
SATA 6 Gb/s 256 GB*, 2.5-inch SATA SED Solid State Drive	**Drive Weight**	Up to 73 Grams	
	Capacity	256 GB	
	Height	0.276 in (7 mm)	
	Width	2.76 in (70 mm)	
	Interface	SATA 3 (6 Gb/s)	
	Performance	**Maximum Sequential Read**	**Maximum Sequential Write**
		Up to 460 MB/s	Up to 260 MB/s
	Logical Blocks	500,118,192	
	Operating Temperature	32° to 158°F (0° to 70°C) [case temp]	
	Features	ATA Security; ATA-8 compliant; SATA 3.0; DIPM; TRIM, TCG Opal Compliant	

* For hard drives and solid state drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 16 GB (for Windows 7) and 30 GB (for Windows 8.1) of system disk is reserved for the system recovery software.
** * FIPS-certified, hardware-based AES-256 encryption image.

SECURITY

HP Fingerprint Reader (optional)	**Mobile Voltage Operation**	3.0V-3.6V
	Operating Temperature	14° – 167°F (-10° – 75°C)
	Current Consumption Image	36 mA peak
	Low Latency Wait for Finger	950 uA
	Capture Rate	6000 lines/sec
	ESD Resistance	IEC 61000-4-2 4B (±15KV)
	Detection Matrix	200*1 (plus another secondary line) 508 dpi 12*3 mm sensor area
Smart Card Reader	**Smart card standard**	PC/SC 2.0 for Windows smart card standard
	Dimensions (L x W x H)	0.41x 0.08 x 0.32 in (10.5 x 2 x 8.2 mm)

Technical Specifications

Smart Card support	ISO 7816 Class A and AB smart cards	
Smart Card Interface	Smart Card Interface with T = 0 and T = 1 support Support I2C memory card, SLE4418, SLE4428, SLE4432, SLE4442, SLE4436, SLE5536, SLE6636, AT88SC1608, AT45D041 card and AT45DB041 card via external EEPROM	
Operating systems	No driver is required for this device. Native support is provided by the operating system.	
Power	**Normal Mode**	With card present, before being suspended: 40.9 mA Without card present, before being suspended: 33.16 mA After being suspended with smart card present: 380 μA After being suspended without smart card present: 380 μA
	Power Saving Mode	With card present, before being suspended: 40.6 mA Without card present: 380 μA After being suspended with smart card present: 380 μA

Features

- Support single slot
- Support T0, T1 protocol
- Support I2C memory card, SLE4418, SLE4428, SLE4432, SLE4442, SLE4436,
- SLE5536, SLE6636, AT88SC1608, AT45D041 card and AT45DB041 card via external EEPROM
- Support ISO7816 Class A, B and C (5V/3V/1.8V) card
- Implemented as an USB full speed device with bulk transfer endpoint, Mass
- Storage endpoint
- Built-in PLL for USB and Smart Card clocks requirement
- Support EEPROM for USB descriptors customization (PID/VID/ iManufacturer/iProduct/Serial Number), Direct Web Page Link, and accessing memory card module.
- EEPROM programmable via USB interface
- Support software update for memory card module
- Support Direct Web Page Link via configuration in external EEPROM
- Support short APDU and extended APDU
- Compatible with Microsoft USB-CCID driver
- Support remote wake up through inserting card/removing card
- Support USB selective suspend
- Support Power Saving Mode (Using one pin to select between Normal/PWR Saving Mode)
- Support card power over current protection mechanism
- Built in resonator.
- Support USB LPM (Link Power Management) features.
- Embedded clock source.

Technical Specifications

NETWORKING/COMMUNICATIONS

Integrated Realtek 10/100/1000 NIC	**Ethernet Features**	10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14) 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-30) 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40) Auto-Negotiation (Automatic Speed Selection) Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100 Mbit/s IEEE 802.1p QoS (Quality of Service) Support IEEE 802.1q VLAN support IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable) IEEE 802.3az EEE (Energy Efficient Ethernet) Jumbo Frame 9K Auto MDI/MDIX Crossover cable detection
	Power Management	ACPI compliant - multiple power modes Situation-sensitive features reduce power consumption Advanced link down power saving for reducing link down power consumption
	Performance Features	TCP/IP/UDP Checksum Offload (configurable) Protocol Offload (ARP & NS) Large send offload and Giant send offload Receiving Side Scaling
	Manageability	Wake-on-LAN from standby and hibernation (Magic Packet and Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only) PXE 2.1 Remote Boot Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB (802.3x, clause 30)) Comprehensive diagnostic and configuration software suite Virtual Cable Doctor for Ethernet cable status
	Interface	PCI Express 1.1 x1 to fully support ASPM L0s/L1 and CLKREQ
	NIC Device Driver Name	Realtek PCIe GBE Ethernet Family Controller
HP hs3110/3114 HSPA+ Mobile Broadband Module*	**Technology/Operating bands**	HSPA+: 2100 (Band1)/1900 (Band 2)/1700 (Band 4)/850 (Band 5)/900 (Band 8) MHz E-GPRS: 1900 (Band 2)/1800 (Band 3)/850 MHz (Band 5)/900 (Band 8) MHz
	Wireless protocol standards	E-GPRS: Class B, Multi-slot class 33, coding schemes CS1 - CS4 and MSC1 - MSC9. UMTS/WCDMA: Release 99 and Release 7
	GPS	Standalone, A-GPS
	GPS Bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz
	Maximum data rates	HSPA+: UL 5.76 Mbps / DL 21.6 Mbps HSPA: UL 5.76 Mbps / DL 7.2 Mbps WCDMA PS: UL 384 kbps / DL 384 kbps WCDMA CS: UL 64 kbps / DL 64 kbps E-GPRS: UL 236.8 kbps/DL 296 kbps

		GPRS: UL 85.6 kbps / DL 107 kbps
	Maximum output power	HSPA+ MHz: 24 dBm E-GPRS 1800/1900: 26 dBm E-GPRS 850/900: 27 dBm GPRS 1800/1900: 30 dBm GPRS 850/900: 33 dBm
	Maximum power consumption	2500 mA (peak); 600 mA (average)
	Form Factor	M.2, 3042-S3 Key B
	Weight	6 g
	Dimensions (Length x Width x Thickness)	1.65 x 1.18 x 0.09 in (42 x 30 x 2.3 mm)

* Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors.

HP lt4211 LTE/EVDO/HSPA+ Qualcomm® Gobi™ 4G Module* (Planned to be available July 2014)	**Technology/Operating bands**	LTE: 1900 (Band 2)/1700 (Band 4)/850 (Band 5)/700 (Band 13), 700 (Band 17), 1900 (Band 25) MHz HSPA+: 2100 (Band 1)/1900 (Band 2)/1700 (Band 4)/850 (Band 5), 800 (Band 8) MHz E-GPRS: 1900 (Band 2)/1800 (Band 3)/850 (Band 5)/900 (Band 8) MHz EV-DO: 800 (BC0)/1900 (BC1) MHz
	Wireless protocol standards	3GPP Release 9 LTE Specification WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification E-GPRS: Class B, Multi-slot class 33, coding schemes CS1 - CS4 and MSC1 - MSC9 EVDO Release 0 and Release A
	GPS	Standalone
	GPS bands	1575.42 MHz, GLONASS 1602 MHz
	Maximum data rates	LTE (Category 3): 100 Mbps (Download), 50Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21.6 Mbps (Download), 5.76 Mbps (Upload) WCDMA PS: 384 kbs (Download), 384 kbs (Upload) WCDMA CS: 64 kbs (Download), 64 kbs (Upload) E-GPRS: 236.8 kbps (Download), 236.8 kbps (Upload) GPRS: 85.6 kbps(Download), 85.6 kbps (Upload) EV-DO Rev.B: 14.7 Mbps (Download), 5.4 Mbps (Upload) EV-DO Rev.A: 3.1 Mbps (Download), 1.8 Mbps (Upload)
	Maximum output power	LTE: +23 dBm (+1/- 2 dBm) HSPA+: +24 dBm (+1/- 2 dBm)

		E-GPRS Band 1800/1900: +25 dBM (+/-1 dBm) E-GPRS Band 850/900: +26 dBM (+/-1 dBm) GPRS 1800/1900 : +30 dBm (+1/-2 dBm) GPRS 850/900: +32 dBm (+/- 1 dBm) EV-DO: +24 dBM (+/-1 dBm)
	Maximum power consumption	LTE: 1,200 mA (peak); <900 mA (average) HSPA+: 1,100 mA (peak); <800 mA (average) E-GPRS: 2,800 mA (peak); <500 mA (average) EV-DO: 1000 mA (peak); <700 mA (average)
	Form Factor	M.2, 3042-S3 Key B
	Weight	6 g
	Dimensions (Length x Width x Thickness)	1.65 x 1.18 x 0.09 in (42 x 30 x 2.3 mm)

* Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors.

HP lt4112 LTE/HSPA+ Qualcomm® Gobi™ 4G Module*	**Technology/Operating bands**	LTE: 2100 (Band 1)/1900 (Band 2)/1800 (Band 3)/850 (Band 5), 2600 (Band 7), 900 (Band 8), 800 MHz (Band 20, DD800) MHz HSPA+: 2100 (Band 1)/1900 (Band 2)/850 (Band 5)/900 (Band 8) MHz E-GPRS: 1900 (Band 2)/1800 (Band 3)/850 (Band 5)/900 (Band 8) MHz
	Wireless protocol standards	3GPP Release 8 LTE Specification WCDMA R99, 3GPP Release 5, 6 and 7 UMTS Specification E-GPRS: Class B, Multi-slot class 33, coding schemes CS1 - CS4 and MSC1 - MSC9
	GPS	Standalone
	GPS bands	1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz
	Maximum data rates	LTE (Category 3): 100 Mbps (Download), 50Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21.6 Mbps (Download), 5.76 Mbps (Upload) EDGE: 236.8 kbps (Download), 236.8 kbps (Upload) GPRS: 85.6 kbps(Download), 85.6 kbps (Upload)
	Maximum output power	LTE: 23 dBm HSPA+: 23.5 dBm E-GPRS 1900/1800: 26.5 dBM E-GPRS 900/850: 27.5 dBM GPRS 1900/1800: 29.5 dBm GPRS 900/850: 32.5 dBm

Technical Specifications

Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average) E-GPRS: 2,800 mA (peak); 700 mA (average)
Form Factor	M.2, 3042-S3 Key B
Weight	6 g
Dimensions (Length x Width x Thickness)	1.65 x 1.18 x 0.09 in (42 x 30 x 2.3 mm)

* Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors.

Broadcom 802.11a/b/g/n (2x2) and Bluetooth® 4.0*

Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n
Interoperability	Wi-Fi certified
Frequency Band	802.11b/g/n • 2.402 – 2.482 GHz 802.11a/n • 4.9 – 4.95 GHz (Japan) • 5.15 – 5.25 GHz • 5.25 – 5.35 GHz • 5.47 – 5.725 GHz • 5.825 – 5.855 GHz • 2.402 – 2.482 GHz
Data Rates	802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)
Modulation	Direct Sequence Spread Spectrum BPSK, QPSK, CCK, 16-QAM, 64-QAM
Security[1]	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only • AES-CCMP: 128 bit in hardware • 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. • WPA2 certification • IEEE 802.11i • Cisco Certified Extensions, all versions through V5

	• WAPI	
Network Architecture	Ad-hoc (Peer to Peer)	
Models	Infrastructure (Access Point Required)	
Roaming	IEEE 802.11 compliant roaming between access points	
Output Power[2]	• 2.4G: +13.5dBm minimum • 5G: +12dBm minimum • Maximum output power must be able to achieve modular regulatory certification with notebooks that have antennas >20cm from the user and peak gain of +3dBi at 2.4GHz and +4dBi at 5GHz	
Power Consumption	Transmit: 2.0 W (max) Receive: 1.6 W (max) Idle mode (PSP): 250 mW (WLAN Associated) Idle mode: 100 mW (WLAN unassociated) Radio disabled: 75 mW	
Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode	
Receiver Sensitivity[3]	802.11b:-95 dBm (1 Mbps), -93 dBm (2 Mbps), -91 dBm (5.5 Mbps), -88 dBm (11 Mbps) 802.11a/g:-90 dBm (6 Mbps), -89 dBm (9 Mbps), -87 dBm (12 Mbps), -85 dBm (18 Mbps), -82 dBm (24 Mbps), -79 dBm (36 Mbps), -76 dBm (48 Mbps), -74 dBm (54 Mbps) 802.11n:-69 dBm (72.2 Mbps), -66 dBm (300 Mbps)	
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications	
Form Factor	PCI-Express Half-MiniCard	
Dimensions	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)	
Weight	3.1g	
Operating Voltage	3.3v +/- 9%	
Temperature	Operating	14° to 158° F (–10° to 70° C)
	Non-operating	–40° to 176° F (–40° to 80° C)
Humidity	Operating	10% to 90% (non-condensing)
	Non-operating	5% to 95% (non-condensing)
Altitude	Operating	0 to 10,000 ft (3,048 m)
	Non-operating	0 to 50,000 ft (15,240 m)
LED Activity	LED Off – Radio OFF; Solid LED On – Radio ON	

1. Check latest software/driver release for updates on supported security features.
2. Maximum output power may vary by country according to local regulations.
3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Bluetooth Specification

Technical Specifications

V4.0 High Speed, V2.1+EDR, backwards compatible with V1.1, 1.2 and 2.0	
Number of Available Channels	79 (1 MHz) available channels
Data Rates and Throughput	3 Mbps data rate; throughput up to 2.17 Mbps
	Synchronous Connection Oriented links up to 3, 64 kbps, voice channels
	Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric or 1306.9 kbps symmetric
Transmit Power	-6 dBm to 4 dBm (Bluetooth Class II)
Receiver Sensitivity	Better than -80 dBM at 0.1 % raw bit error rate
Power Consumption	Peak (Tx) 330 mW Peak (Rx) 230 mW Sleep <17 mW
Antenna	Internally integrated within module
Range	Up to 33 ft (10 m)
Electrical Interface	USB 2.0 compliant Microsoft Windows Plug and Play compliant
Bluetooth Software Supported	Broadcom Bluetooth for Windows Microsoft Windows Bluetooth Software
Link Topology	Point to Point, Multipoint Pico Nets up to 7 slaves
Security	Full support of Bluetooth Security Provisions
Power Management	Microsoft Windows ACPI, and USB Bus Support Self configurable to optimize power conservation in all operating modes, including Standby, Hold, Park, and Sniff
Certifications	All necessary regulatory approvals for supported countries, including: FCC (47 CFR) Part 15C, Section 15.247 & 15.249 ETS 300 328, ETS 300 826 Low Voltage Directive IEC950 UL, CSA, and CE Mark
Bluetooth Profiles Supported	Generic Access Profile (GAP) Service Discovery Application Profile (SDAP) Serial Port Profile (SPP) Dial_Up Networking Profile (DUN) Generic Object Exchange Profile (GOEP) Object Push Profile (OPP) File Transfer Profile (FTP) Synchronization Profile (SYNC) Hard Copy Cable Replacement (HCRP) Personal Area Networking Profile (PAN) Human Interface Device Profile (HID) Generic Audio/Video Distribution Profile (GAVDP) Advanced Audio/Video Distribution Profile (A2DP) FAX Profile (FAX) Basic Imaging Profile (BIP) Headset Profile (HSP) Hands Free Profile (HFP) Basic Printing Profile (BPP) VDP (Video Distribution Profile) AVRCP (Audio Video Remote Control Profile)

* Wireless access point and internet service required. Availability of public wireless access points limited.

Atheros 802.11 b/g/n (1x1)*	**Wireless LAN Standards**	IEEE 802.11b IEEE 802.11g IEEE 802.11n
	Interoperability	Wi-Fi certified
	Frequency Band	2.4 GHz
	Data Rates	802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: many possible data rates, ranging from 6 Mbps to 300 Mbps, depending on the combination of Bandwidth, Modulation Coding Scheme, and Guard Interval used, as defined in IEEE 802.11n specification
	Modulation	Direct Sequence Spread Spectrum DBPSK, DQPSK, CCK, OFDM, BPSK, QPSK, 16-QAM, 64-QAM
	Security[1]	Supports 64- and 128-bit WEP, WPA, WPA2, hardware-accelerated AES, 802.1x authentication types EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP, EAP-FAST.
	Sub-channels	Multinational support with frequency bands and channels compliant to local regulations.
	Media Access Protocol	CSMA/CA (Collision Avoidance) with ACK
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power[2]	13.5 dBm, nominal
	Power Consumption	Transmit: 2.0 W (max) Receive: 1.6 W (max) Associated to Access Point, Idle: 250 mW nominal Wireless Button Off: 100 mW nominal Radio disabled: 75 mW nominal
	Power Management	ACPI compliant power management 802.11 compliant power saving mode
	Receiver Sensitivity[3]	72.2 Mbps: -70 dbm, 54 Mbps: -74 dBm, 11 Mbps: -88 dBm , 1 Mbps: -95 dBm
	Antenna Connections	High efficiency antenna with spatial diversity, mounted in the display enclosure
	Form Factor	PCI-Express Half-MiniCard 1.2
	Weight	0.013 lb (6 g)
	Dimensions	0.19 x 1.06 x 1.18 in (4.75 x 26.8 x 30 mm)
	Operating Voltage	3.3v +/- 9%
	Temperature	Operating 14° to 158° F (-10° to 70° C) Non-operating -40° to 176° F (-40° to 80° C)

Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)
Altitude	Operating Non-operating	0 to 10,000 ft (3,048 m) 0 to 50,000 ft (15,240 m)
LED Activity	LED Off - Radio OFF; Solid LED On - Radio ON	

1. Check latest software/driver release for updates on supported security features.
2. Maximum output power may vary by country according to local regulations.
3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).
*** Wireless access point and internet service required. Availability of public wireless access points limited.**

AUDIO/MULTIMEDIA - DTS SOUND+

Hardware	**Implementation**	IDT 92HD91
	Function Key Volume Controls	Volume up, volume down, and mute
	Full Duplex	Yes
	Microphone In	Stereo
	Headphone/Line Out	Stereo
	Integrated Microphone	Yes, dual digital microphone array when equipped with optional webcam
Audio Output Quality	**Frequency Response**	20 Hz – 20 kHz
	Signal to Noise Ratio	>85 dB
	Total Harmonic Distortion	0.01%
	Noise Floor	–110 dB
	Play/Record Sampling Rate(s)	8 kHz – 48kHz
	DAC	16, 20 or 24-bit
	ADC	16 or 20-bit
Integrated Stereo Speakers	**Power Rating**	2 Watts
	Impedance	4 Ohms

POWER

HP 45W Slim Smart AC Adapter non-slim	**Dimensions** (H x W x D)	95.0 x 40.0 x 26.5mm	
	Input	90 to 265 VAC	
		Input Efficiency	88% min at 115 VAC / 89% min at 230VAC
		Input frequency range	47 to 63 Hz
		Input AC current	1.4 A at 90 VAC and maximum load

Technical Specifications

	Output	**Output power**	45W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<8A, Over voltage protection- 29V max automatic shutdown
	Connector	3 pin/grounded, mates with 4.5mm barrel type Smart ID DC connector	
	Environmental Design	**Operating temperature**	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 121° F (-20° to 85° C)
		Altitude	0 to 16,405 ft (0 to 5,000 m)
		Humidity	0% to 95%
		Storage Humidity	0% to 95%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; Reliability - failure rate of less than 0.1% annually within the first three years of operation.	
HP 65W EM Smart AC Adapter	**Dimensions**	4.98 x 1.97 x 1.18 in (12.65 x 5.0 x 3.0 cm)	
	Weight	0.62 lb (290 g) max	
	Input	90 to 265 VAC	
		Input Efficiency	87% min at 115 VAC
		Input frequency range	47 to 63 Hz
		Input AC current	1.7 A at 90 VAC
	Output	**Output power**	65W
		DC output	19.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<11A, Over voltage protection- 29V max automatic shutdown
	Connector	3 pin/grounded, mates with interchangeable cords	
	Environmental Design	**Operating temperature**	32° to 95° F (0° to 35° C)
		Non-operating (storage) temperature	-4° to 185° F (-20° to 85° C)
		Altitude	0 to 10,000 ft (0 to 3,048 m)
		Humidity	20% to 95%
		Storage Humidity	10% to 95%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; MTBF - over 200,000 hours at 25°C ambient condition.	

QuickSpecs

Technical Specifications

HP 65W Slim Smart AC Adapter	**Dimensions**	120.0 x 57.6 x 16.7 mm	
	Weight	250 g	
	Input	90 to 265 VAC	
		Input Efficiency	88% min at 115 VAC / 89% min at 230VAC
		Input frequency range	47 to 63 Hz
		Input AC current	1.7 A at 90 VAC
	Output	**Output power**	65W
		DC output	18.5V
		Hold-up time	5 msec at 115 VAC input
		Output current limit	<11A, Over voltage protection- 29V max automatic shutdown
	Connector	3 pin/grounded, mates with interchangeable cords	
	Environmental Design	**Operating temperature**	32° to 104° F (0° to 40° C)
		Non-operating (storage) temperature	-4° to 149° F (-20° to 65° C)
		Altitude	0 to 10,000 ft (0 to 3,048 m)
		Humidity	20% to 80%
		Storage Humidity	10% to 90%
	EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives; Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; MTBF - over 200,000 hours at 25°C ambient condition.	
3-cell HP Long Life (24WHr) Lithium-Ion Polymer	**Dimensions** (H x W x L)	0.85 x 1.76 x 10.59 in (2.16 x 4.46 x 26.9cm)	
	Weight	169.3 g	
	Cells/Type	3-cell Lithium-Ion Polymer	
	Energy	Voltage	11.1
		Amp-hour capacity	4.4Ah
		Watt-hour capacity	24Wh
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 122° F(-10° to 50° C)
		Non-operating	-4° to 122° F (-20° to 50° C)
	Fuel Gauge LED	No	
	Warranty	1 year or 3 years* *Battery warranty depends on the platform warranty.	
	Optional Travel Battery Available	No	
	Dimensions (H x W x L)	0.85 x 1.76 x 10.59 in (2.16 x 4.46 x 26.9 cm)	
	Weight	168.5 g	
	Cells/Type	3-cell Lithium-Ion Polymer	

Technical Specifications

3-cell HP Long Life (26WHr) Lithium-Ion Polymer	**Energy**	Voltage	11.1
		Amp-hour capacity	4.4Ah
		Watt-hour capacity	26.3Wh
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 122° F(-10° to 50° C)
		Non-operating	-4° to 122° F (-20° to 50° C)
	Fuel Gauge LED	No	
	Warranty	1 year or 3 years* *Battery warranty depends on the platform warranty.	
	Optional Travel Battery Available	No	
3-cell HP Long Life (46WHr) Lithium-Ion Polymer	**Dimensions** (H x W x L)	0.85 x 1.76 x 10.59 in (2.16 x 4.46 x 26.9cm)	
	Weight	259 g	
	Cells/Type	3-cell Lithium-Ion Polymer	
	Energy	Voltage	11.1
		Amp-hour capacity	4.4Ah
		Watt-hour capacity	46Wh
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 122° F(-10° to 50° C)
		Non-operating	-4° to 122° F (-20° to 50° C)
	Fuel Gauge LED	No	
	Warranty	1 year or 3 years* *Battery warranty depends on the platform warranty.	
	Optional Travel Battery Available	No	
3-cell HP Long Life (50WHr) Lithium-Ion Polymer	**Dimensions** (H x W x L)	0.85 x 1.76 x 10.59 in (2.16 x 4.46 x 26.9 cm)	
	Weight	262 g	
	Cells/Type	3-cell Lithium-Ion Polymer	
	Energy	Voltage	11.1
		Amp-hour capacity	4.4Ah
		Watt-hour capacity	50Wh
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 122° F(-10° to 50° C)
		Non-operating	-4° to 122° F (-20° to 50° C)
	Fuel Gauge LED	No	
	Warranty	1 year or 3 years* *Battery warranty depends on the platform warranty.	
	Optional Travel Battery Available	No	

HP 6-cell Lithium-Ion Long Life Slice Battery (60 WHr)	**Dimensions** (h x w x l)	0.28 x 12.6 x 8.39in (0.7 x 32 x 21.3 cm)	
	Weight	1.72 lb (0.78 kg)	
	Cells/Type	6-cell Lithium-Ion	
	Energy	**Voltage**	11.4V
		Amp-hour capacity	5.4Ah
		Watt-hour capacity	60Wh
	Temperature	**Operating (Charging)**	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 122° F(-10° to 50° C)
		Non-operating	-4° to 122° F (-20° to 50° C)
	Battery Re-Charge Time	**System in OFF or* Standby Mode**	3.5 to 5 hours
		System ON*	4 to 7 hours
	Fuel Gauge LED	No	
	Optional Travel Battery Available	No	

- Standby life will vary depending on various factors including battery, Memory, CPU, EC and LAN chip. The maximum capacity of the battery will naturally decrease with time and usage.

ENVIRONMENTAL

HP EliteBook 725 G2 Notebook PC

System Configuration The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.

Energy Consumption (in accordance with US ENERGY STAR® test method)	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	12.09 W	12.06 W	11.86 W
Normal Operation (Long idle)	7.37 W	7.43 W	7.45 W
Sleep	1.1 W	1.14 W	1.11 W
Off	0.21 W	0.3 W	0.21 W

Note:

Technical Specifications

Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	41 BTU/hr	41 BTU/hr	xxx BTU/hr
Normal Operation (Long idle)	25 BTU/hr	25 BTU/hr	25 BTU/hr
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L_{WAd}, bels)	Sound Pressure (L_{pAm}, decibels)
Typically Configured – Idle	3	25
Fixed Disk – Random writes	3.2	28

Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 3 USB ports
- 1 PC card slot (type I/II)
- 1 ExpressCard/54 slot
- 1 IEEE 1394 Port
- 2 SODIMM memory slots
- Optional expansion base docking station
- 1 multi-bay II storage port
- Interchangeable HDD

Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

Batteries

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:
Mercury greater the1ppm by weight
Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)
Battery type: Lithium
Battery size: 6-cell high capacity Lithium-Ion battery (optional 8 cell available)
Battery type:

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is in compliance with the IEEE 1680 (EPEAT) standard at the <gold> level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 0% post-consumer recycled plastic (by wt.)
- This product is 96.6% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	372 g
Internal:	PLASTIC/EPE (Expanded Polyethylene)	43.7 g
	PLASTIC/Polyethylene low density	26 g

The plastic packaging material contains at least 50% recycled content.
The corrugated paper packaging materials contains at least 70% recycled content.

HP EliteBook 745 G2 Notebook PC

System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.

Energy Consumption (in accordance with US ENERGY STAR® test method)

	115VAC, 60Hz	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	13.01 W	13.33 W	13.12 W
Normal Operation (Long idle)	9.78 W	9.83 W	9.86 W
Sleep	0.82 W	0.84 W	0.81 W
Off	0.23 W	0.25 W	0.23 W

Note:
Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model

family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	44 BTU/hr	46 BTU/hr	45 BTU/hr
Normal Operation (Long idle)	33 BTU/hr	34 BTU/hr	34 BTU/hr
Sleep	3 BTU/hr	3 BTU/hr	3 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L_{WAd}, bels)	Sound Pressure (L_{pAm}, decibels)
Typically Configured – Idle	3.4	21
Fixed Disk – Random writes	4.0	26

Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 3 USB ports
- 1 PC card slot (type I/II)
- 1 ExpressCard/54 slot
- 1 IEEE 1394 Port
- 2 SODIMM memory slots
- Optional expansion base docking station
- 1 multi-bay II storage port
- Interchangeable HDD

Spare parts are available throughout the warranty period and or for up to “5” years after the end of production.

Batteries

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:
Mercury greater the1ppm by weight
Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)
Battery type: Lithium

Battery size: 6-cell high capacity Lithium-Ion battery (optional 8 cell available)
Battery type:

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is in compliance with the IEEE 1680 (EPEAT) standard at the <Gold> level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 0% post-consumer recycled plastic (by wt.)
- This product is 97.3% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	405 g
Internal:	PLASTIC/EPE (Expanded Polyethylene)	45 g
	PLASTIC/Polyethylene low density	26 g

The plastic packaging material contains at least 50% recycled content.
The corrugated paper packaging materials contains at least 70% recycled content.

HP EliteBook 755 G2 Notebook PC

System Configuration

The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.

Energy Consumption (in accordance with US ENERGY STAR® test method)

	115VAC, 60Hz	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	13.4 W	13.31 W	13.41 W
Normal Operation (Long idle)	8.63 W	8.73 W	8.68 W
Sleep	0.65 W	0.71 W	0.68 W
Off	0.24 W	0.29 W	0.29 W

Note:
Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is

for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.

Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 60Hz**
Normal Operation (Short idle)	46 BTU/hr	46 BTU/hr	46 BTU/hr
Normal Operation (Long idle)	30 BTU/hr	30 BTU/hr	30 BTU/hr
Sleep	2 BTU/hr	2 BTU/hr	2 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr

*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	Sound Power (L_{WAd}, bels)	Sound Pressure (L_{pAm}, decibels)
Typically Configured – Idle	3.4	26
Fixed Disk – Random writes	4	27

Longevity and Upgrading

This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include:

- 3 USB ports
- 1 PC card slot (type I/II)
- 1 ExpressCard/54 slot
- 1 IEEE 1394 Port
- 2 SODIMM memory slots
- Optional expansion base docking station
- 1 multi-bay II storage port
- Interchangeable HDD

Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.

Batteries

This battery(s) in this product comply with EU Directive 2006/66/EC

Batteries used in the product do not contain:
Mercury greater the1ppm by weight
Cadmium greater than 20ppm by weight

Battery size: CR2032 (coin cell)
Battery type: Lithium
Battery size: 6-cell high capacity Lithium-Ion battery (optional 8 cell available)
Battery type:

Additional Information

- This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC.
- This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC.
- This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986).
- This product is in compliance with the IEEE 1680 (EPEAT) standard at the <gold> level, see www.epeat.net
- Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043.
- This product contains 0% post-consumer recycled plastic (by wt.)
- This product is 97.5% recycle-able when properly disposed of at end of life.

Packaging Materials

External:	PAPER/Corrugated	475 g
Internal:	PLASTIC/EPE (Expanded Polyethylene)	47 g
	PLASTIC/Polyethylene low density	26 g

The plastic packaging material contains at least 50% recycled content.
The corrugated paper packaging materials contains at least 70% recycled content.

All models

Eco-Label Certifications & declarations

These products has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks:

- IT ECO declaration
- US ENERGY STAR®
- EPEAT <Gold> registered in the United States. See http://www.epeat.net for registration status in your country.

Material Usage

This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at: **http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf**):

- Asbestos
- Certain Azo Colorants
- Certain Brominated Flame Retardants - may not be used as flame retardants in plastics
- Cadmium
- Chlorinated Hydrocarbons
- Chlorinated Paraffins
- Formaldehyde
- Halogenated Diphenyl Methanes
- Lead carbonates and sulfates

- Lead and Lead compounds
- Mercuric Oxide Batteries
- Nickel - finishes must not be used on the external surface designed to be frequently handled or carried by the user.
- Ozone Depleting Substances
- Polybrominated Biphenyls (PBBs)
- Polybrominated Biphenyl Ethers (PBBEs)
- Polybrominated Biphenyl Oxides (PBBOs)
- Polychlorinated Biphenyl (PCB)
- Polychlorinated Terphenyls (PCT)
- Polyvinyl Chloride (PVC) - except for wires and cables, and certain retail packaging has been voluntarily removed from most applications.
- Radioactive Substances
- Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)

Packaging Usage

HP follows these guidelines to decrease the environmental impact of product packaging:

- Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
- Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
- Design packaging materials for ease of disassembly.
- Maximize the use of post-consumer recycled content materials in packaging materials.
- Use readily recyclable packaging materials such as paper and corrugated materials.
- Reduce size and weight of packages to improve transportation fuel efficiency.
- Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: **http://www.hp.com/go/reuse-recycle** or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: **http://www.hp.com/go/recyclers**. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.

Hewlett-Packard Corporate Environmental Information

For more information about HP's commitment to the environment:

Global Citizenship Report
http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html
Eco-label certifications
http://www8.hp.com/us/en/hp-information/environment/ecolabels.html
ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K_Certificate.pdf
and
http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

Country of Origin

TBD

QuickSpecs

Options and Accessories (sold separately and availability may vary by country)

Type	Description	Part #
Cases	HP Essential Top Load Case (up to 15.6")	H2W17AA#xxx
	HP Essential Backpack (up to 15.6")	H1D24AA
	HP Essential Messenger Case (up to 17.3")	H1D25AA
	HP Business Top Load (EliteBook 745 and 755 only)	H5M92AA
	HP Professional Top Load (EliteBook 745 and 755 only)	H4J90AA
Docking	HP 2013 UltraSlim Docking Station	D9Y32AA#xxx
Input/Output – Mice	HP Comfort Grip Wireless Mouse	H2L63AA
	HP 3-button USB Laser Mouse	H4B81AA
	HP USB Optical Travel mouse	RH304AA
Input/Output – Adapters	HP DP to HDMI 1.4 Adapter	F3W43AA
Adapters	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#xxx
Batteries	HP CO06XL Notebook Battery (Slice) (EliteBook 745 only)	E7U23AA
	HP CM03XL Notebook Battery (EliteBook 745 and 755 only)	E7U24AA
	HP SB03XL Notebook Battery (EliteBook 725 only)	E7U25AA
Security	HP Docking Station Cable Lock	AU656AA#xxx
	HP UltraSlim Keyed Cable Lock	H4D73AA
Monitors	HP EliteDisplay E271i 27-inch IPS LED Monitor	D7Z72AA/A8/AS/AT
	HP EliteDisplay E231 23-inch LED Monitor	C9V75AA/A8/AS/AT
	HP EliteDisplay E201 20-inch LED Monitor	C9V73AA/A8/AS/AT
	HP ProDisplay P221 21.5" LED Monitor	C9E49AA/A8/AS/AT
	HP ProDisplay P201 20" LED Monitor	C9F26AA/A8/AS/AT

Copyright © 2014 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice.

The only warranties for HP products are set forth in the express limited warranty statements accompanying such products. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Radeon and Athlon are registered trademarks or trademarks of AMD Corporation in the U.S. and/or other countries. Bluetooth is a trademark owned by its proprietor and used by Hewlett-Packard Company under license. ENERGY STAR is a registered mark owned by the U.S. government. Microsoft and Windows are U.S. registered trademarks of Microsoft Corporation.

QuickSpecs

Options and Accessories (sold separately and availability may vary by country)

Summary of Changes

Date of change:	Version History:		Description of change:
May 21, 2014	From v May 20 to v May 21	Added	G2 to product name (long)
June 5, 2014	From vMay 21 to vJune 6	Added	745 G2 Environmental specs
June 9, 2014	From vJune 6 to vJune 9	Added	725 G2,755 G2environmental specs